

Database Development Workshops

Database Development Workshops

NTHRYS BIOTECH LABS provides a diverse array of workshops in the realm of Database Development. Explore our comprehensive offerings below

[Database Development Workshops Application Process](#)

[Back to All Workshops](#)

Innovate and Inspire: Database Development Workshops Designed for You!

1. [Workshop in Introduction to Database DevelopmentPDF](#)
2. [Workshop in Advanced Database Management TechniquesPDF](#)
3. [Workshop in Emerging Trends in Database DevelopmentPDF](#)
4. [Workshop in Database Design and NormalizationPDF](#)
5. [Workshop in Relational Database Management Systems \(RDBMS\)PDF](#)
6. [Workshop in NoSQL Database FundamentalsPDF](#)
7. [Workshop in Data Migration StrategiesPDF](#)
8. [Workshop in Database Security and CompliancePDF](#)
9. [Workshop in Database Integration with Web ApplicationsPDF](#)
10. [Workshop in Machine Learning and DatabasesPDF](#)

1. Workshop in Introduction to Database Development

+

Date: Pre Selected Date

Fee: Rs 6000/-

Duration: One Day

Mode: Offline and Virtual

Location for Offline: NBL Cherlapalli IDA Branch

Facilitator(s): NTHRYS TEAM

8:00 AM - 8:30 AM: Registration and Welcome Coffee

Participants arrive, register, and network over coffee.

8:30 AM - 8:45 AM: Opening Remarks

Welcome by the host.

Brief overview of today's focus.

8:45 AM - 10:15 AM: Session 1: Basics of Database Design

Overview of database design principles and its significance in software development.

Introduction to relational database concepts, normalization, and ER diagrams.

10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Structured Query Language (SQL)

Hands-on training on SQL commands for data manipulation and querying.

Practical session on creating tables, joins, and advanced query techniques.

12:00 PM - 1:00 PM: Lunch Break

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Database Security and Integrity

Overview of database security principles.

Practical exercises on implementing security measures, backup strategies, and data integrity checks.

2:30 PM - 2:45 PM: Short Break

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Database Performance Optimization

Discussion on techniques for optimizing database performance.
Case studies on indexing, query optimization, and database tuning.

4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break

Last networking opportunity with snacks.

4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption

Group discussions on implementing new techniques learned today.
Dialogue on overcoming challenges in adopting new technologies in similar sectors.
Feedback session and closing remarks.

Certificate Issue

5:30 PM: Workshop Concludes

2. Workshop in Advanced Database Management Techniques

+

Date: Pre Selected Date

Fee: Rs 6000/-

Duration: One Day

Mode: Offline and Virtual

Location for Offline: NBL Cherlapalli IDA Branch

Facilitator(s): NTHRYS TEAM

8:00 AM - 8:30 AM: Registration and Welcome Coffee

Participants arrive, register, and network over coffee.

8:30 AM - 8:45 AM: Opening Remarks

Welcome by the host.

Brief overview of today's focus.

8:45 AM - 10:15 AM: Session 1: Database Partitioning and Sharding

Introduction to database partitioning and sharding techniques.

Hands-on workshop on horizontal and vertical partitioning, replication, and sharding in distributed systems.

10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: NoSQL Databases

Overview of NoSQL database technologies and their use cases.

Practical session on document-based, key-value, and graph databases like MongoDB and Redis.

12:00 PM - 1:00 PM: Lunch Break

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Data Warehousing and ETL

Discussion on data warehousing concepts and ETL (Extract, Transform, Load) processes.

Practical exercises on building data pipelines and working with large datasets.

2:30 PM - 2:45 PM: Short Break

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Cloud Database Solutions

Exploration of cloud-based database management systems.

Case studies on AWS RDS, Azure SQL Database, and Google Cloud Databases.

4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break

Last networking opportunity with snacks.

4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption

Group discussions on implementing new techniques learned today.

Dialogue on overcoming challenges in adopting new technologies in similar sectors.
Feedback session and closing remarks.

Certificate Issue

5:30 PM: Workshop Concludes

3. Workshop in Emerging Trends in Database Development

+

Date: Pre Selected Date

Fee: Rs 6000/-

Duration: One Day

Mode: Offline and Virtual

Location for Offline: NBL Cherlapalli IDA Branch

Facilitator(s): NTHRYS TEAM

8:00 AM - 8:30 AM: Registration and Welcome Coffee

Participants arrive, register, and network over coffee.

8:30 AM - 8:45 AM: Opening Remarks

Welcome by the host.

Brief overview of today's focus.

8:45 AM - 10:15 AM: Session 1: Database Automation and DevOps

Introduction to automation and DevOps practices in database management.

Hands-on workshop on automated deployment, monitoring, and version control for databases.

10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Big Data and Analytics

Overview of big data technologies and analytics.

Practical session on Hadoop, Spark, and data analytics tools.

12:00 PM - 1:00 PM: Lunch Break

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Database Scalability and High Availability

Discussion on scalability and high availability in database systems.
Case studies on load balancing, clustering, and failover strategies.

2:30 PM - 2:45 PM: Short Break

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Blockchain and Decentralized Databases

Exploration of blockchain technology and decentralized databases.
Practical exercises on setting up a blockchain-based ledger and its potential in database management.

4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break

Last networking opportunity with snacks.

4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption

Group discussions on implementing new techniques learned today.
Dialogue on overcoming challenges in adopting new technologies in similar sectors.
Feedback session and closing remarks.

Certificate Issue

5:30 PM: Workshop Concludes

4. Workshop in Database Design and Normalization

+

Date: Pre Selected Date

Fee: Rs 6000/-

Duration: One Day

Mode: Offline and Virtual

Location for Offline: NBL Cherlapalli IDA Branch

Facilitator(s): NTHRYS TEAM

8:00 AM - 8:30 AM: Registration and Welcome Coffee

Participants arrive, register, and network over coffee.

8:30 AM - 8:45 AM: Opening Remarks

Welcome by the host.

Brief overview of today's focus.

8:45 AM - 10:15 AM: Session 1: Entity-Relationship Modeling

In-depth discussion on entity-relationship modeling.

Practical exercises on identifying entities, attributes, and relationships in real-world applications.

10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Normalization Techniques

Overview of normalization and its importance in database design.

Practical session on first, second, and third normal forms (1NF, 2NF, 3NF).

12:00 PM - 1:00 PM: Lunch Break

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: De-Normalization and Data Redundancy

Discussion on when and why to use de-normalization.

Case studies on managing data redundancy in large-scale systems.

2:30 PM - 2:45 PM: Short Break

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Advanced Data Modeling

Exploration of advanced data modeling techniques.

Hands-on workshop on hierarchical and network data models.

4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break

Last networking opportunity with snacks.

4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption

Group discussions on implementing new techniques learned today.

Dialogue on overcoming challenges in adopting new technologies in similar sectors.

Feedback session and closing remarks.

Certificate Issue

5:30 PM: Workshop Concludes

5. Workshop in Relational Database Management Systems (RDBMS)

+

Date: Pre Selected Date

Fee: Rs 6000/-

Duration: One Day

Mode: Offline and Virtual

Location for Offline: NBL Cherlapalli IDA Branch

Facilitator(s): NTHRYS TEAM

8:00 AM - 8:30 AM: Registration and Welcome Coffee

Participants arrive, register, and network over coffee.

8:30 AM - 8:45 AM: Opening Remarks

Welcome by the host.
Brief overview of today's focus.

8:45 AM - 10:15 AM: Session 1: Introduction to RDBMS

Overview of relational database management systems and their architecture.
Practical session on setting up a relational database in MySQL.

10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Query Optimization in RDBMS

Overview of query optimization techniques in RDBMS.
Practical exercises on query optimization using indexes, query execution plans, and caching.

12:00 PM - 1:00 PM: Lunch Break

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Stored Procedures and Functions

Discussion on the use of stored procedures and functions in RDBMS.
Hands-on workshop on writing and optimizing stored procedures and functions in MySQL.

2:30 PM - 2:45 PM: Short Break

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Managing Transactions and Concurrency

Overview of transaction management and concurrency control in RDBMS.
Case studies on implementing ACID properties and handling deadlocks.

4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break

Last networking opportunity with snacks.

4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption

Group discussions on implementing new techniques learned today.

Dialogue on overcoming challenges in adopting new technologies in similar sectors.

Feedback session and closing remarks.

Certificate Issue

5:30 PM: Workshop Concludes

6. Workshop in NoSQL Database Fundamentals

+

Date: Pre Selected Date

Fee: Rs 6000/-

Duration: One Day

Mode: Offline and Virtual

Location for Offline: NBL Cherlapalli IDA Branch

Facilitator(s): NTHRYS TEAM

8:00 AM - 8:30 AM: Registration and Welcome Coffee

Participants arrive, register, and network over coffee.

8:30 AM - 8:45 AM: Opening Remarks

Welcome by the host.

Brief overview of today's focus.

8:45 AM - 10:15 AM: Session 1: Introduction to NoSQL Databases

Overview of NoSQL database fundamentals and their applications.

Practical session on key-value stores, document stores, and column-family stores.

10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Scaling NoSQL Databases

Discussion on scaling techniques in NoSQL databases.

Hands-on workshop on horizontal scaling, sharding, and replication in NoSQL systems like MongoDB and Cassandra.

12:00 PM - 1:00 PM: Lunch Break

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Schema Design for NoSQL

Overview of schema design best practices in NoSQL databases.

Case studies on schema modeling in document-based databases.

2:30 PM - 2:45 PM: Short Break

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Consistency and Partition Tolerance

Exploration of the CAP theorem and its implications on NoSQL databases.

Case studies on managing consistency and partition tolerance in distributed systems.

4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break

Last networking opportunity with snacks.

4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption

Group discussions on implementing new techniques learned today.

Dialogue on overcoming challenges in adopting new technologies in similar sectors.

Feedback session and closing remarks.

Certificate Issue

5:30 PM: Workshop Concludes

7. Workshop in Data Migration Strategies

+

Date: Pre Selected Date

Fee: Rs 6000/-

Duration: One Day

Mode: Offline and Virtual

Location for Offline: NBL Cherlapalli IDA Branch

Facilitator(s): NTHRYS TEAM

8:00 AM - 8:30 AM: Registration and Welcome Coffee

Participants arrive, register, and network over coffee.

8:30 AM - 8:45 AM: Opening Remarks

Welcome by the host.

Brief overview of today's focus.

8:45 AM - 10:15 AM: Session 1: Introduction to Data Migration

Overview of data migration principles and strategies.

Practical session on migrating data between different database systems.

10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Data Migration Tools

Hands-on training on data migration tools and utilities.

Practical exercises on using tools like MySQL Workbench, Talend, and AWS Data Migration Service.

12:00 PM - 1:00 PM: Lunch Break

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Data Cleansing and Transformation

Discussion on data cleansing and transformation during migration.

Case studies on handling data quality issues during migration.

2:30 PM - 2:45 PM: Short Break

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Post-Migration Validation and Testing

Overview of post-migration validation and testing strategies.

Practical session on verifying data integrity, completeness, and performance after migration.

4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break

Last networking opportunity with snacks.

4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption

Group discussions on implementing new techniques learned today.

Dialogue on overcoming challenges in adopting new technologies in similar sectors.

Feedback session and closing remarks.

Certificate Issue

5:30 PM: Workshop Concludes

8. Workshop in Database Security and Compliance

+

Date: Pre Selected Date

Fee: Rs 6000/-

Duration: One Day

Mode: Offline and Virtual

Location for Offline: NBL Cherlapalli IDA Branch

Facilitator(s): NTHRYS TEAM

8:00 AM - 8:30 AM: Registration and Welcome Coffee

Participants arrive, register, and network over coffee.

8:30 AM - 8:45 AM: Opening Remarks

Welcome by the host.
Brief overview of today's focus.

8:45 AM - 10:15 AM: Session 1: Introduction to Database Security

Overview of database security best practices.
Practical session on user management, role-based access control, and encryption techniques.

10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Regulatory Compliance in Databases

Discussion on regulatory compliance requirements for databases.
Case studies on implementing compliance standards like GDPR, HIPAA, and PCI-DSS.

12:00 PM - 1:00 PM: Lunch Break

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Database Auditing and Monitoring

Overview of database auditing and monitoring techniques.
Practical exercises on setting up audit trails, logs, and monitoring tools for database activity.

2:30 PM - 2:45 PM: Short Break

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Incident Response and Disaster Recovery

Exploration of incident response and disaster recovery plans for databases.
Practical session on backup and recovery strategies, and preparing for security breaches.

4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break

Last networking opportunity with snacks.

4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption

Group discussions on implementing new techniques learned today.
Dialogue on overcoming challenges in adopting new technologies in similar sectors.
Feedback session and closing remarks.

Certificate Issue

5:30 PM: Workshop Concludes

9. Workshop in Database Integration with Web Applications

+

Date: Pre Selected Date

Fee: Rs 6000/-

Duration: One Day

Mode: Offline and Virtual

Location for Offline: NBL Cherlapalli IDA Branch

Facilitator(s): NTHRYS TEAM

8:00 AM - 8:30 AM: Registration and Welcome Coffee

Participants arrive, register, and network over coffee.

8:30 AM - 8:45 AM: Opening Remarks

Welcome by the host.
Brief overview of today's focus.

8:45 AM - 10:15 AM: Session 1: Introduction to Database Integration

Overview of integrating databases with web applications.
Practical session on setting up a database backend for web applications using PHP and MySQL.

10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: REST APIs and Databases

Hands-on workshop on creating REST APIs to interact with databases.
Practical exercises on building and securing APIs with database backends.

12:00 PM - 1:00 PM: Lunch Break

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Real-Time Database Integration

Overview of real-time database integration techniques.
Case studies on using WebSockets and Firebase for real-time data synchronization.

2:30 PM - 2:45 PM: Short Break

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Scaling Web Applications with Databases

Exploration of scaling techniques for web applications using databases.
Practical session on load balancing, caching, and database replication for high-traffic websites.

4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break

Last networking opportunity with snacks.

4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption

Group discussions on implementing new techniques learned today.
Dialogue on overcoming challenges in adopting new technologies in similar sectors.
Feedback session and closing remarks.

Certificate Issue

5:30 PM: Workshop Concludes

10. Workshop in Machine Learning and Databases

+

Date: Pre Selected Date

Fee: Rs 6000/-

Duration: One Day

Mode: Offline and Virtual

Location for Offline: NBL Cherlapalli IDA Branch

Facilitator(s): NTHRYS TEAM

8:00 AM - 8:30 AM: Registration and Welcome Coffee

Participants arrive, register, and network over coffee.

8:30 AM - 8:45 AM: Opening Remarks

Welcome by the host.

Brief overview of today's focus.

8:45 AM - 10:15 AM: Session 1: Introduction to Machine Learning with Databases

Overview of machine learning principles and their application to databases.

Hands-on workshop on integrating machine learning models with databases.

10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Data Preprocessing for Machine Learning

Discussion on data preprocessing techniques for machine learning.

Practical session on data cleaning, feature selection, and normalization techniques.

12:00 PM - 1:00 PM: Lunch Break

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Querying Databases for Machine Learning

Overview of querying techniques for extracting data for machine learning.
Case studies on complex query patterns, feature extraction, and data pipelines.

2:30 PM - 2:45 PM: Short Break

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Model Deployment and Monitoring

Exploration of model deployment and monitoring techniques.
Practical session on deploying machine learning models into production databases.

4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break

Last networking opportunity with snacks.

4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption

Group discussions on implementing new techniques learned today.
Dialogue on overcoming challenges in adopting new technologies in similar sectors.
Feedback session and closing remarks.

Certificate Issue

5:30 PM: Workshop Concludes

Note: NTHRYS Management reserves the right to modify the workshop module at any time without prior notice. Registered or enrolled candidates will receive the module that is current on the day of enrollment.

NTHRYS Workshops Department

M: +91-7993084748

Email: workshops (a t) nthrys [d0t] com

Database Development Workshops Application Process

1. Select a workshop from the list.
2. Contact via whatsapp on the number present above to request fee details and dates suitable for joining. Alternatively, you can send an email to workshops (a t) nthrys [d o t] com.
3. Our Workshop department will contact you promptly to provide further assistance.